CLAIMS

1. Method for determining the position of a rotationally drivable tool, having the following steps:

- positioning a rotationally drivable tool (14) in the beam path of a measuring beam (18),
- rotating the tool (14),
- choosing a movement direction,
- moving the tool (14) in the chosen direction, away from the measuring beam (18), to a measuring position in which the tool (14) is separated from the measuring beam (18),
- detecting the measuring position for a position of the tool (14) in which the measuring beam (18) is not interrupted during at least one revolution of the tool (14), and
- determining the position of the tool (14) from the measuring position.

2. Method according to Claim 1, in which the tool (14) is positioned in the beam path of the measuring beam (18) in such a manner that the measuring beam (18) is interrupted.

3. Method according to Claim 1 or 2, in which the tool (14) is positioned in the beam path of the measuring beam (18) in such a manner that the measuring beam (18) is periodically interrupted by the rotating tool (14).

4. Method according to one of Claims 1 to 3, in which the tool (14) is rotated at a predetermined rotational speed.

5. Method according to one of Claims 1 to 4, in which the tool (14) is moved at a predetermined velocity.

6. Method according to one of Claims 1 to 5, in which the tool position is determined in dependence on the rotational speed and the movement velocity of the tool (14).

7. Method according to one of Claims 1 to 6, in which the moving of the tool (14) away from the measuring beam (18) is ended when the measuring position is reached.

8. Method according to one of Claims 1 to 7, in which the geometry of the tool (14) is determined from the measuring position.

9. Device for determining the geometry and position of a rotationally drivable tool, having:

- a control system, and
- an optical measuring device (10, 12),

characterised in that

- the control system is designed and programmed to carry out the method according to one of Claims 1 to 8.

10. Device according to Claim 9, characterised in that the optical measuring device (10, 12) has a transmitter (10) for emitting a measuring beam (18) and a receiver (12) for selectively receiving the measuring beam (18).